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Innovation and Intellectual Property Rights, 25 June 2013

Standard disclaimer applies: The views expressed are those of the author and do not necessarily reflect those of the OECD or its Member countries.

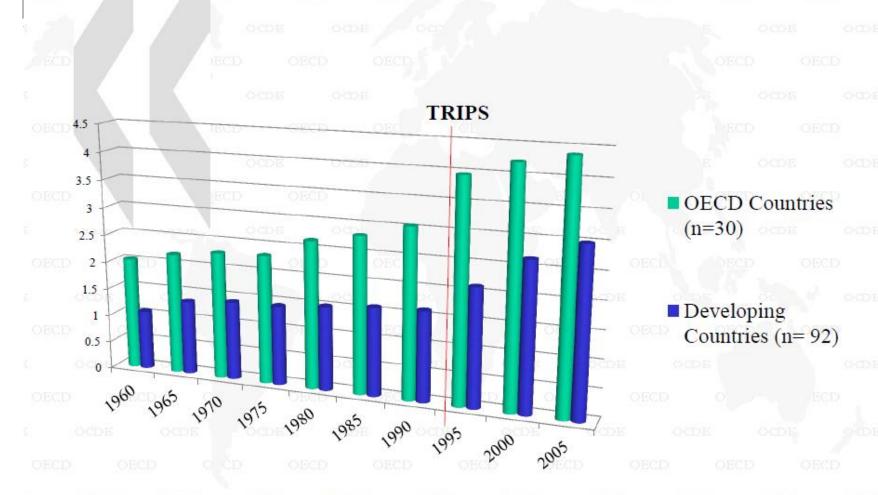




IPR Concepts and Trade Interests

- Property rights are an important institution: "they help a man form those expectations which he can reasonably hold in his dealings with others" (Demsetz, 1967)
- Intellectual property: unlike physical goods, a single bit of intellectual property can be made available simultaneously, repeatedly, non-exclusively: they are non-rivalrous (Romer 1990; Jones, 2004)
- Incentive problem: the intangible nature makes it possible to leverage, but also difficult to appropriate economic benefits (Demsetz, 1967)
- What matters is the total stock of available ideas, not amount per capita (Jones, 2004)
- Global framework assuring appropriate rights means potential access to global stock of ideas via the market
- IP Sources: domestic innovation, import or transfer from abroad

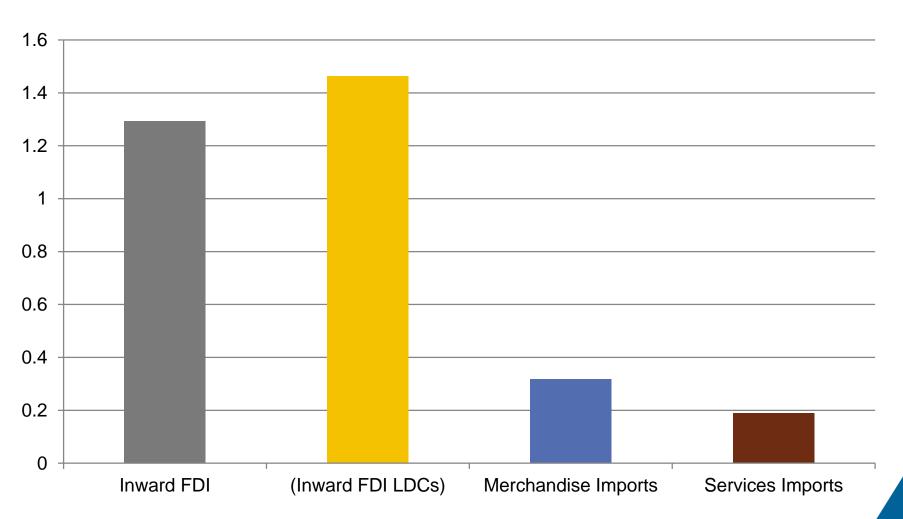
Index of Patent Rights Based on laws on the Books (0 = weak, 5 = strong)



Source data: Park and Lippoldt (2008)

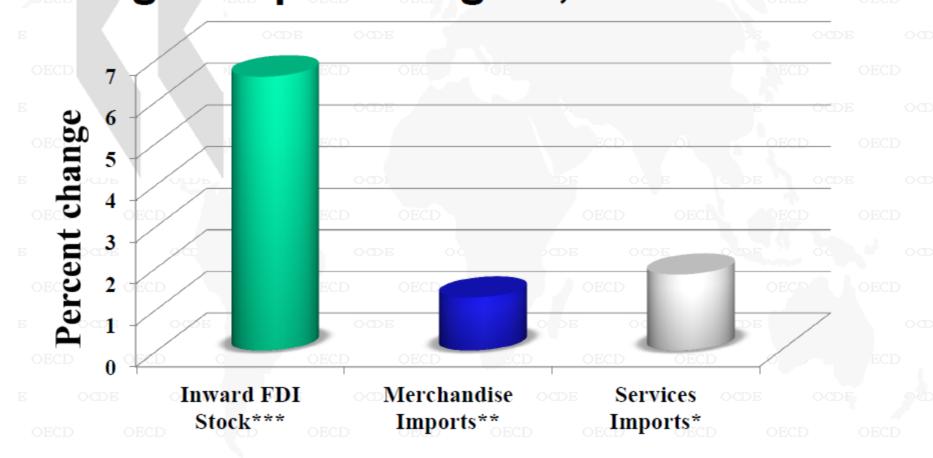


Developing countries: relationship of a 1% increase in the Patent Rights Index to other indicators, 1990-2005



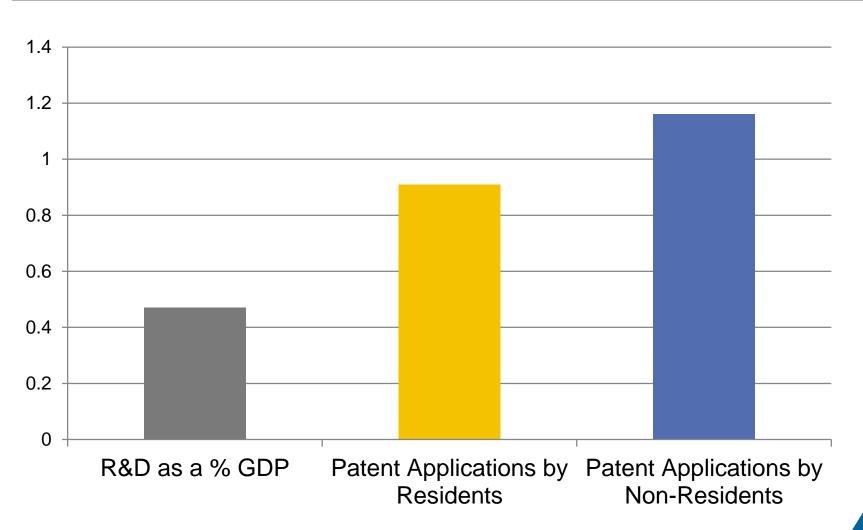
Source: Lippoldt (2011); Park & Lippoldt (2008)

High-Income Countries: Change in int'l econ flows associated with 1% change in strength of patent rights, 1990-2005

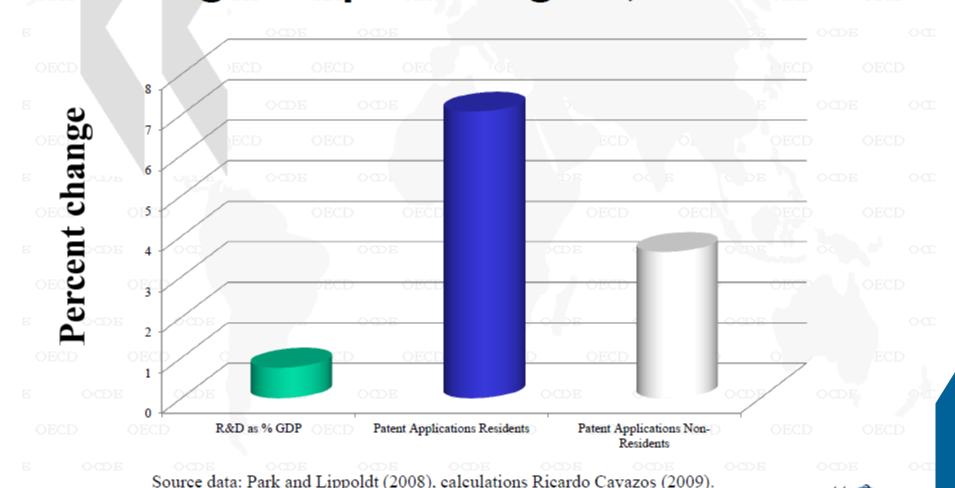




Developing countries: relationship of a 1% increase in the Patent Rights Index to other indicators, 1990-2005



High-Income Countries: Change in innovation associated with 1% change in strength of patent rights, 1990-2005





Promoting FDI: Positive Policy Interactions, 1990-2005

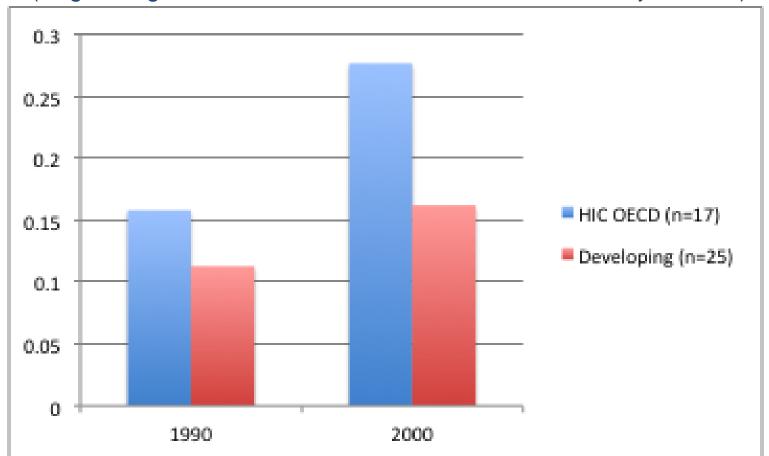
Policy Variable	Countries with Low Income per capita	Countries with Medium Income per capita	Countries with High Income per capita
FREE TRADE & PATENT PROTECTION		√*	
DOING BUSINESS & PATENT PROTECTION	√**		*
PHYSICAL PROPERTY RIGHTS & PATENT PROTECTION	√ *		
GOVERNMENT EFFECTIVENESS & PATENT PROTECTION	√ *		

Standard Errors: *p<0.1 **p<0.05 *** p<0.01 Source: Cavazos, Lippoldt, and Senft (2010)



Technological Achievement Index

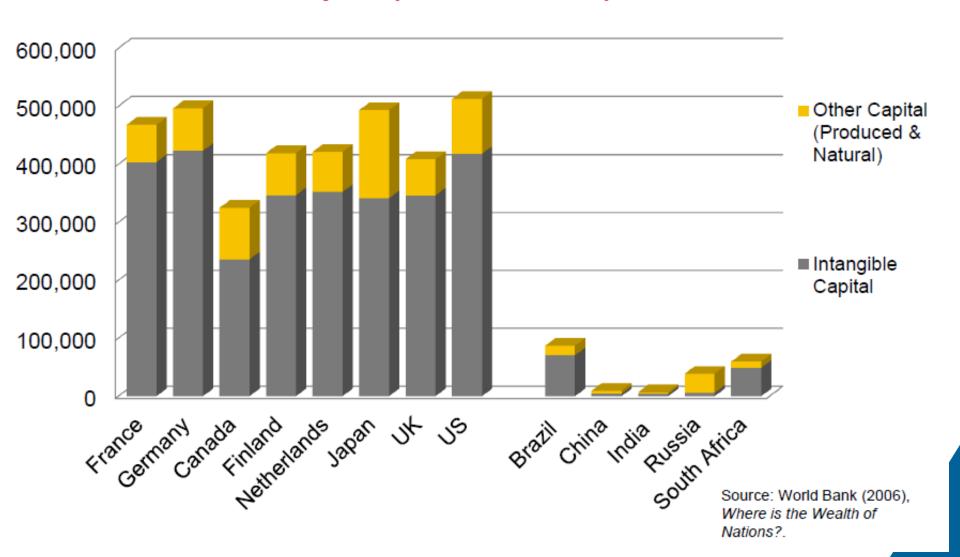
(Regressing In Patent Index on In TAI = coef 0.3643^{**} , adj r2= 0.66)



Source: GEP (2008)

OECD Trade and Agriculture Directorate

Wealth Estimates By Country: Total Stock Per Capita (2000, in USD)





Conclusions

- Presented above: the case of patents. Similar results for © & ™
- IPRs are a key institution for enabling rights holders to capitalise on their innovations & for others to access these innovations via trade & investment (proprietary & open source approaches); promote tech transfer and domestic innovation.
- IPRs are one factor among others that influence innovation; **require complementary conditions** to be effective: e.g., awareness, institutional capacity, rule of law, enforcement, human capital, appropriate business regulation
- Innovation is branching & dynamic care required not to unduly constrain or prejudge technology, competition, entrepreneurship.
- Caveats apply: the relationships shown in charts represent association, not necessarily causality; refer to a specific timeframe and sets of countries, specific conditions; a positive relationship in this range does not mean further protection will always yield similar additional results.
- Next step in our research agenda: trade secrets protection.